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Patent Claims

1. A switched mode power supply having a transformer (T1), which has a primary winding (W1) and at least one secondary winding (W2 - W5), having a switching transistor (Q1) in series with the primary winding (W1) and a control circuit (IC1) for controlling an output voltage (U3 - U5), the control circuit (IC1) containing an oscillator (O) which can be set via a terminal (4),
5 characterized in that the terminal (4) is coupled to a secondary winding (W2).
2. The switched mode power supply as claimed in claim 1, characterized in that the terminal (4) is connected to a rectified voltage (U2) which is provided on the primary side by the secondary winding (W2) via a first rectifier means (D4).
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3. The switched mode power supply as claimed in claim 2, characterized in that the terminal (4) is connected via a bandpass filter (C2, R1) and a second rectifier means (D6) to the first rectifier means (D4).
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4. The switched mode power supply as claimed in claim 3, characterized in that the bandpass filter (C2, R1) has a time constant which is smaller than the period of the switching frequency of the switching transistor (Q1).
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- 30 5. The switched mode power supply as claimed in one of the preceding claims, characterized in that the control circuit (IC1) is arranged in an integrated circuit, and in that the integrated circuit has an oscillator (O), whose oscillation frequency can be set via the terminal (4) using external circuitry (Rt, Ct).
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6. The switched mode power supply as claimed in one of the preceding claims, characterized in that the

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terminal (4) is connected to a first capacitor (Ct) for the purpose of determining the oscillation frequency of the oscillator (O) once the switched mode power supply has been connected, and in that the terminal (4) is 5 connected via a resistor (R2) to the secondary winding (W2) for the purpose of increasing the oscillation frequency of the oscillator (O) during the normal mode of operation of the switched mode power supply.

10 7. The switched mode power supply as claimed in claim 6, **characterized** in that the secondary winding (W2) is connected via the first rectifier means (D4) to a bandpass filter (R1, C2) for the purpose of generating a rectified pulsed voltage during the normal mode of 15 operation (U2), and in that the rectified pulsed voltage (U2) is connected via the second rectifier means (D6) and the resistor (R2) to the terminal (4) of the control circuit.

20 8. The switched mode power supply as claimed in one of the preceding claims 2 - 7, **characterized** in that the first rectifier means (D4) is connected via a third rectifier means (D5) to a capacitor (C3) for the purpose of generating an operating voltage (VCC) for 25 the control circuit (IC1).

9. The switched mode power supply as claimed in one of the preceding claims, **characterized** in that the control circuit is integrated in an integrated circuit 30 (IC1), which acts as a current mode controller and is coupled to a measurement resistor (RS) connected in series with the switching transistor (Q1).